

Title (en)
PUMP

Title (de)
PUMPE

Title (fr)
POMPE

Publication
EP 1461533 A1 20040929 (DE)

Application
EP 02798289 A 20021220

Priority

- DE 0204678 W 20021220
- DE 10164250 A 20011227

Abstract (en)
[origin: WO03056180A1] The invention relates to a pump, particularly a vane pump or roller cell pump, provided with a two-stroke contour ring, a rotor, vanes, side plates, a casing, a casing cover and with lower vane grooves for supplying the lower vane surfaces with pressure, whereby the vanes, which are mounted inside the rotor in a manner that enables them to be radially displaced, are pressed outward against the contour ring by this pressure.

IPC 1-7
F04C 2/344; F04C 11/00; F04C 15/02; F04C 15/00

IPC 8 full level
F01C 21/08 (2006.01); **F04C 2/344** (2006.01); **F04C 11/00** (2006.01); **F04C 15/00** (2006.01); **F04C 15/06** (2006.01)

CPC (source: EP)
F01C 21/0863 (2013.01); **F04C 2/3446** (2013.01); **F04C 11/001** (2013.01); **F04C 15/0023** (2013.01); **F04C 15/066** (2013.01)

Citation (search report)
See references of WO 03056180A1

Cited by
EP3835585A1; US11686306B2

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LI LU MC NL PT SE SI SK TR

DOCDB simple family (publication)
WO 03056180 A1 20030710; AU 2002363838 A1 20030715; DE 10259894 A1 20030717; DE 10297707 D2 20050217;
EP 1461533 A1 20040929; EP 1461533 B1 20120620; FR 2834317 A1 20030704; FR 2834317 B1 20060609; IT MI20022764 A1 20030628

DOCDB simple family (application)
DE 0204678 W 20021220; AU 2002363838 A 20021220; DE 10259894 A 20021220; DE 10297707 T 20021220; EP 02798289 A 20021220;
FR 0216662 A 20021224; IT MI20022764 A 20021224